

What is claimed is:

1. A session management apparatus managing a session of an information process through a network using a plurality of media, comprising:
 - 5 a plurality of communications devices transmitting and receiving data of the plurality of media respectively;
 - 10 a plurality of interface devices respectively corresponding to the plurality of media, respectively receiving session information from the plurality of communications devices, and generating unified session information corresponding to the received session information; and
 - 15 an integral management device receiving the unified session information from each of said plurality of interface devices, and performing a process relating to session management on a session using two or more media among the plurality of media according to the received unified session information.
2. The apparatus according to claim 1, wherein
25 said integral management device performs a process relating to session management including a

start of the session using the two or more media, identity management for the session, and a disconnection of the session.

5 3. The apparatus according to claim 1, wherein each of said plurality of interface devices comprises a session information conversion device converting the received session information into the unified session information.

10 4. The apparatus according to claim 1, further comprising

15 a process device performing an information process while inheriting said unified session information, wherein

 said integral management device instructs said process device to perform a process corresponding to the unified session information.

20 5. The apparatus according to claim 4, wherein said integral management device assigns a plurality of session identifiers to a user identifier of a user at a request to establish a plurality of sessions from the user, manages the plurality of sessions corresponding to the

plurality of session identifiers, and instructs said process device to perform a process corresponding to a selected session identifier, which is selected by the user from among the 5 plurality of session identifiers, when unified session information including the selected session identifier is received.

6. The apparatus according to claim 4, wherein
10 said integral management device stores plural pieces of additional identification information corresponding to results of a plurality of individual information processes belonging to the session using the two or more media, and instructs said process device to perform a process based on a result of an individual information process 15 corresponding to selected additional identification information, which is selected by a user from among the plural pieces of additional identification information, when unified session information including the selected additional identification information is received.

7. The apparatus according to claim 1, further
20 comprising
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a register device registering user information,
wherein

among said plurality of interface devices, an
interface device corresponding to a user-desired
5 available medium confirms a connection of the
available medium, and said register device
registers the available medium as the user
information when the connection of the available
medium is confirmed.

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8. The apparatus according to claim 1, further
comprising:

a register device registering user information;
and

15 an authentication device performing user
authentication, wherein:

said plurality of media includes a voice
medium;

when a user requests use of the voice medium,
20 an interface device corresponding to the voice
medium among said plurality of interface devices
obtains voiceprint information of the user;

said register device registers the voiceprint
information as the user information; and

25 said authentication device performs user

authentication of the user according to the entered voiceprint information when the user gains access.

9. The apparatus according to claim 1, further
5 comprising

a process device performing a process relating to information search while inheriting the unified session information, wherein

10 said integral management device instructs said process device to perform a searching process corresponding to the unified session information.

10. The apparatus according to claim 9, wherein

15 said process device comprises a control device assigning plural pieces of history identification information to results of a plurality of corresponding searching processes belonging to the session using the two or more media; and

20 said integral management device instructs said process device to perform a re-searching process based on a result of a searching process corresponding to selected history identification information, which is selected by a user from among the plural pieces of history identification information, when unified session information
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including the selected history identification information is received.

11. The apparatus according to claim 9, wherein
5 said process device comprises:

 a storage device storing a result of a latest searching process among results of a plurality of searching processes belonging to the session using the two or more media; and

10 a control device controlling for performing a re-searching process based on the result of the latest searching process when said integral management device instructs a searching process corresponding to the unified session
15 information.

12. The apparatus managing a session of an information process through a network, comprising:

20 a mail communications device transmitting and receiving data of an electronic mail medium;

 a WEB communications device transmitting and receiving data of an WEB medium.

 a voice communications device transmitting and receiving data of a voice medium;

25 a mail control device receiving session

information from said mail communications device, and generating unified session information corresponding to received session information;

5 a WEB control device receiving session information from said WEB communications device, and generating unified session information corresponding to received session information;

10 a voice control device receiving session information from said voice communications device, and generating unified session information corresponding to received session information; and

15 an integral management device receiving the unified session information from said mail control device, said WEB control device, and said voice control device, and performing a process relating to session management of a session using two or more media among the electronic mail medium, the WEB medium, and the voice medium according to the received unified session information.

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13. The apparatus according to claim 12, wherein
said integral management device performs a process relating to session management including a start of the session using two or more media,
25 identity management for the session, and a

disconnection of the session.

14. The apparatus according to claim 12, further comprising:

5 a process device performing a process relating
to information search while inheriting the unified
session information, wherein

10 said integral management device instructs said process device to perform a searching process corresponding to the unified session information.

15. A session management apparatus managing a session of an information process through a network using a plurality of media, comprising:

15 a plurality of communications devices transmitting and receiving data of the plurality of media respectively; and

20 a plurality of interface devices respectively corresponding to the plurality of media,
respectively receiving session information from the plurality of communications devices, generating unified session information corresponding to the received session information, and performing a process relating to session management of a session
25 using two or more media among the plurality of

media according to the unified session information.

16. The apparatus according to claim 15, wherein
said plurality of interface devices perform a
process relating to session management containing a
start of the session using two or more media,
identity management for the session, and a
disconnection of the session.
- 10 17. The apparatus according to claim 15, wherein
said plurality of interface devices
cooperatively perform the process relating to the
session management in a distributed manner
according to the unified session information.
- 15 18. The apparatus according to claim 15, wherein
one of said plurality of interface devices
representatively performs the process relating to
the session management.
- 20 19. A session management apparatus for managing a
session of an information process through a network
using a plurality of media, comprising:
an issue device issuing session identification
information using two or more media among the
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plurality of media;

a management device performing consistent session management on the two or more media according to the identification information.

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20. A computer-readable storage medium storing a program for a computer which manages a session of an information process through a network using a plurality of media, said program used to direct the computer to perform a process comprising:

receiving session information of each of the plurality of media through the network;

generating unified session information corresponding to the received session information;

15 and

performing session management of a session using two or more media among the plurality of media according to the unified session information.

20 21. The storage medium according to claim 20, wherein

said program instructs the computer to perform a process relating to session management containing a start of the session using two or more media, identity management for the session, and a

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disconnection of the session.

22. A method of managing a session managing a session of an information process through a network
5 using a plurality of media, comprising:

receiving session information of each of the plurality of media through the network;

generating unified session information corresponding to the received session information;
10 and

performing session management of a session using two or more media among the plurality of media according to the unified session information.

15 23. The method according to claim 22, wherein

said session management includes a start of the session using two or more media, identity management for the session, and a disconnection of the session.

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24. A session management apparatus managing a session of an information process through a network using a plurality of media, comprising:

25 a plurality of communications means for transmitting and receiving data of the plurality of

media respectively;

a plurality of interface means for respectively corresponding to the plurality of media, respectively receiving session information from the 5 plurality of communications means, and generating unified session information corresponding to the received session information; and

integral management means for receiving the unified session information from each of said 10 plurality of interface means, and performing a process relating to session management on a session using two or more media among the plurality of media according to the received unified session information.

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25. A propagation signal propagating a program to a computer which manages a session of an information process through a network using a plurality of media, said program used to direct the computer to 20 perform a process comprising:

receiving session information of each of the plurality of media through the network;

generating unified session information corresponding to the received session information; 25 and

performing session management of a session using two or more media among the plurality of media according to the unified session information.